Integration New Media's

PDF Xtra

For Macromedia Director®

Version 1.0

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User Manual

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INDEX ..... ERROR! BOOKMARK NOT DEFINED.

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Welcome to PDF Xtra

Integration New Media's PDF Xtra adds new members of type PDF (Portable Document Format) to your Director movie. The new members can be dragged to Director's stage and become sprites similar to other Director sprites. They can be moved and resized using standard Director authoring techniques. Members of type PDF Xtra are linked to PDF documents. They require either Adobe Acrobat or Adobe Acrobat Reader to be present on the Macintosh or PC they run on.

Integration New Media's PDF Xtra joins the best of Director's and the Portable Document Format's worlds: it enables the integration of high-quality, precise and printable Acrobat documents into Director's interactive and multimedia-rich environment. It also provides a way to create powerful scripting shells that manage multiple PDF documents in user-friendly environments.

Terminology

Acrobat Reader refers to the free software than can be downloaded from Adobe's site .

Acrobat refers to the full version of the software that must be licensed by end-users (previously known as *Acrobat Exchange*).

Throughout this manual, *Acrobat/Reader* is used to refer to either Acrobat or Acrobat Reader.

System Requirements

- Macintosh: A Power Macintosh running MacOS 8.1 or greater
- Windows: Windows 95/98/NT4/2000.
- Macromedia Director version 6.x, 7.x, or 8.
- Adobe Acrobat 4.x and/or Acrobat Reader 4.x .

Installation

To install PDF Xtra for authoring (i.e., in the Director application):

1. Make sure Director is not running,
2. Place the Xtra (On the PC: a file named *"PDF Asset.x32";* On the Mac: a file named *"PDF Asset PPC"*) into the Xtras folder. This folder is located in the same place as the Director application.
3. Launch Director.
4. Choose File > Preferences > General and make sure 'Animate in Background' is turned on.

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5 Make sure the Insert > Media Element menu contains a new entry named PDF Document.

PDF Xtra requires that Adobe Acrobat and/or Acrobat Reader be installed on the system on which you wish to use PDF Xtra. If you do not own a license for Adobe Acrobat, you and/or your customers can download the Adobe Acrobat Reader for free from: http://www.adobe.com/acrobat/readstep.html

PDF Xtra can force the end-user's computer to use the commercial version of Acrobat, or the free Acrobat Reader. It also has the ability to dynamically adapt to the configuration of the end-user's computer. In that mode, it first tries to use Acrobat. If Acrobat is not present, it tries to use Acrobat Reader, if that is not present, it tries to run Acrobat from the CD. More features are available to PDF Xtra if Acrobat is present. See Appendix 3: Methods Reference for complete details.

> Important Note: If you are using Director 7 on a Windows operating system, before authoring your application, it is suggested you replace the file `DIRAPI.DLL` (usually located in something akin to `C:\Program Files\Macromedia\Director 7.0`) with the version that comes with Shockwave 7.0.3, in order to resolve a few bugs in that version of Director. Director 8 has apparently resolved these issues, so no changes are required if you are authoring with that version of Director.

How to Register PDF Xtra

In order to register your Xtra, and remove the Demo splash screen, you need to look at the properties of any PDF castmember. Open its Properties window and click Register. Enter the name of the license owner, the name of the company and the registration number that was given to you upon purchase of the license. You may find it convenient to copy/paste any of the above data from other applications to this window. Please note that the registration number is case sensitive, and requires you to enter the dashes (-).

The free evaluation version of PDF Xtra contains all the functionality of the licensed version, except that it displays a Demo splash screen every time it loads a sprite of type PDF. In order to ship a product containing the PDF Xtra you must license the software.

Please make sure to read and agree to the License Agreement (see Appendix 1: License Agreement) before purchasing your PDF Xtra license. To purchase a license, contact Integration New Media, Inc. at (800) 400-1772 or (514) 871-1333.

The PDFXtra-L Mailing List

PDFXtra-L is a mailing list devoted to discussions on PDF Xtra and related topics. Here, PDF Xtra users can exchange tips, share their experience, suggest new features, etc. New announcements concerning PDF Xtra are also posted in this forum. To subscribe to PDFXtra-L send the following text in the body of an e-mail to PDFXtra-Request@integration.qc.ca:

```
subscribe <your e-mail address>
```

where *e-mail address* is the address to which you wish to have the PDFXtra-L mail sent.

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Technical Support

The PDFXtra-L mailing list is the best place to get support and benefit from the experience of a large number of PDF Xtra users.

If you need further assistance or personal attention, it will be our Technical Support team's pleasure to help you. Contact them by e-mail (preferred) or by phone at the whereabouts listed in Contacting Us below. Requests from Licensed users take priority over those from non-licensed users.

About Us

Integration New Media, Inc. is a team of fifteen highly skilled professionals, mostly software engineers, dedicated to assisting multimedia developers in their projects.

Our Home Page is located at: http://www.integration.qc.ca/

We develop high-quality products, such as V12 Database Engine and PDF Xtra, and also offer customized services at various levels, including:

- aiding multimedia developers in the implementation of our Xtras with their projects,
- adapting our Xtras to specific needs,
- aiding multimedia developers in advanced Lingo projects,
- undertaking advanced Lingo projects on a subcontracting basis,
- developing custom-made Xtras.

For further information about our services, please contact our Sales team (see below).

Contacting Us

We encourage you to contact us with questions, comments or feedback. We can be reached at:

Integration New Media, Inc.
1425 Rene-Levesque West, Suite 906
Montreal, Quebec, Canada H3G 1T7
Phone: (514) 871-1333 (Support and International Sales)
(800) 400-1772 (Sales, USA and Canada only)
Info: info@integration.qc.ca
Sales: sales@integration.qc.ca
Support: support@integration.qc.ca
Web: http://www.integration.qc.ca
http://www.PDFxtra.com

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Limitations of PDF Xtra

Sprites of type PDF Xtra act as regular Director sprite. You can move them, resize them, right-mouse-button-click (Windows) or Control-click (MacOS) them, etc.

Unlike other Director sprites:

- There cannot be objects on top of them.
- They do not react to transitions.
- They cannot be rotated, skewed, blended or assigned an ink.
- The `visible` property works with Director 7 or greater only. With Director 6, you can hide or show a PDF Xtra sprite by moving it off-screen (see Tips and Tricks).

Since PDF Xtra relies on Acrobat or Acrobat Reader for display management, it automatically inherits features such as:

- Each PDF document can be opened only once, whether through PDF Xtra or directly in Acrobat/Reader.
- Not all features are available or supported identically on Mac/Acrobat, Mac/Reader, Win/Acrobat and Win/Reader. PDF Xtra tries to standardize those features as much as possible, but some differences remain. See PDF Xtra Member Options Dialog Box and Appendix 2: Lingo Compatibility Chart.
- Acrobat cannot be used by a Shockwave movie on Windows platforms. Reader is used, regardless of PDF Xtra's settings.
- Links to local PDF files within a PDF document only work with Acrobat on the Windows platform.
- PDF_SetDisplayMode() only works when the Toolbar is visible with Acrobat on Windows platforms.
- The PDF sprite will flicker if used in 256-color mode, due to a palette conflict between Acrobat/Reader and Director. Higher color modes work fine.

Release Notes and Known Issues

Integration New Media works extremely hard to ensure that the PDF Xtra is bug-free and stable. If you are aware of any issues not listed here, please contact us by E-mail at support@integration.qc.ca . Visit our web site at http://www.pdfxtra.com/ to download the latest version, or to consult the Release Notes and Known Issues.

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Creating Sprites of type PDF Xtra

To create a sprite of type PDF Xtra, do the following.

1. Choose Insert > Media Element > PDF Document.

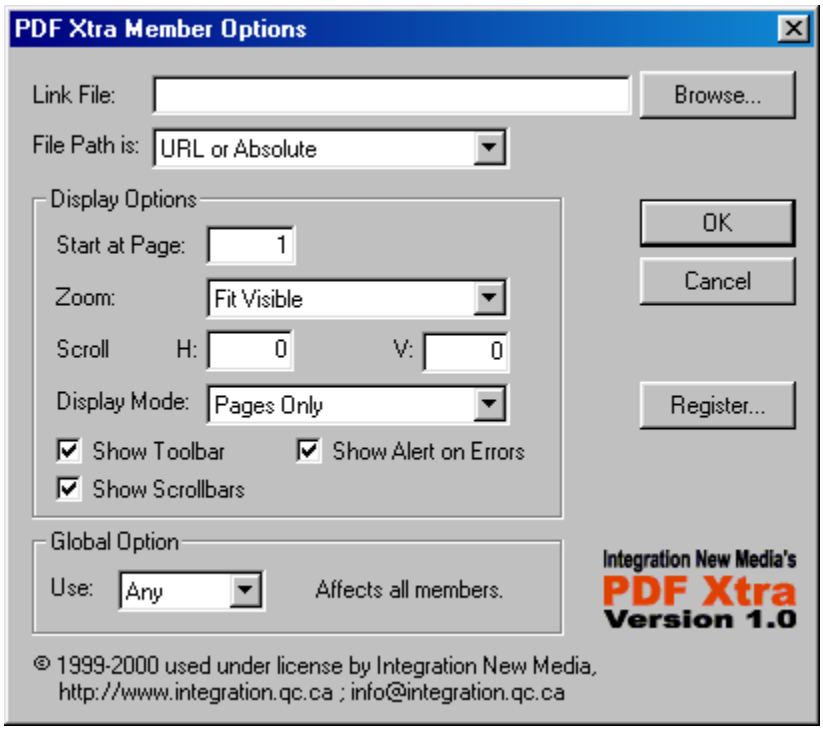
   The PDF Xtra member's options dialog box opens.

2. Optionally, assign a file name and startup values to your PDF Xtra member. If you skip this step, you can still assign a file name and get/set the member's properties via Behaviors or Lingo. Note that not all of this window's properties are supported identically on MacOS and Windows, or on Acrobat and Acrobat Reader.

3. Drag the PDF Xtra member to the stage.

4. Run your Director movie.

PDF Xtra Member Options Dialog Box



The PDF Xtra Member Options dialog box appears when you double click a cast member or sprite of type PDF and when you click the Options button in the Cast Member Properties dialog. It is used to specify the PDF file to display and to set display options.

The settings that you specify in the PDF Xtra Member Options dialog are saved, and will be the settings used when you open your movie at a later date. Note that changes made to the settings via Behaviors or the Lingo scripting interface are not saved.

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In the **Link File** field, you specify the location of the PDF file to display. Type in the path and file name, or use the Browse option to locate the file you wish to use.

The **File Path is** drop down lets you tell the PDF Xtra how to interpret the path specified in the Link File field. Possible choices are:

- *URL or Absolute*: PDF Xtra interprets the contents of the Link File field as being a fully qualified path or a URL. Examples:

`C/CoolProject/MyDoc.PDF`	MacOS and Windows
`http://www.PDFxtra.com/manual.pdf`	MacOS and Windows
`C:\CoolProject\MyDoc.PDF`	Windows only
`DieHard:CoolProject:MyDoc.PDF`	MacOS only

  If you choose "Browse" and then select a file, the pathname will be filled in for you. You should usually select the "File Path is" > "Relative to movie" setting if your PDF files are within the same directory as your Director movie.

- *Relative to Movie*: PDF Xtra interprets the contents of the Link File field as being relative to the location of the Movie. Examples:
  If MyMovie.dir, located in directory `root/`, calls `PDFDocs/MyDoc.pdf` then PDF Xtra searches for the file in the directory `root/PDFDocs/`.
  Similarly, if the movie calls `../PDFDocs/MyDoc.pdf`, then PDF Xtra looks for a sibling directory called `PDFDocs/`.
  For more information on pathnames, see Specifying pathnames to PDF Xtra below.

- *Relative to Playback Engine*: the Xtra interprets the specified path as relative to the location of either the Director executable or the movie projector, depending on whether you are authoring or playing the movie from a projector.

  Note For security reasons, the Relative to Playback Engine, and Relative to Movie options cannot be used with Shockwave.

Display Options

There are four Display Options that can be set to control how PDF Xtra displays the PDF file on the stage. They are:

Start at Page: specify the page number of the PDF Document from which you would like it to open when displayed.

Zoom: specify the initial zoom factor you want. This is either an integer in the range 8..1600 (percentage), or one of Fit in Window, Actual Size, Fit Visible, or Fit Width.

Scroll H/V: specify the number of pixels to scroll the PDF document horizontally (H) and vertically (V) in the sprite upon opening it. Usually, scrolling the document by 5, 5 at Actual Size helps suppressing the gray background Acrobat displays behind the document.

Display Mode: select how you want the initial display of the document to appear.
- *Pages Only:* Displays just the contents of the document.
- *Bookmark and Pages:* Displays the page and the bookmarks tab.
- *Thumbnail and Pages:* Displays the page and the thumbnail tab

Show Toolbar: show/hide Acrobat/Reader's standard toolbar at the top of the PDF Xtra sprite.

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Show Scrollbars: show/hide horizontal and vertical scrollbars to scroll the document displayed by PDF Xtra.

> **Note** In Acrobat for Windows, the Toolbar cannot be displayed without Scrollbars: Scrollbars must also be displayed if the Toolbar is present. If the Toolbar is hidden, Scrollbars can be separately shown or hidden.

> **Note** PDF Xtra expects that you have the Toolbar and Window Controls set to visible in the actual PDF Document. To double-check these settings, in Acrobat go to: File > Document Info > Open, and check the settings. The default is to have the Toolbar and Window Controls visible.

- **Show Alert on Error**: check this if you want the user to see an error dialog box when PDF Xtra encounters an error condition. If unchecked, errors are not reported to the user in a dialog box, however they can still be checked via the `PDF_Error()` and `PDF_SetDisplayMode`

Syntax `PDF_SetDisplayMode(whichSprite, theModeSymbol)`

Parameters *`whichSprite:`* a sprite of type PDF
`theModeSymbol:` one of the following symbols: #pagesOnly, #bookmarkAndPages, #thumbnailAndPages

Description Change the display mode of the specified sprite of type PDF according to the symbol given in *`theModeSymbol:`*

- `#pagesOnly:` Displays just the contents of the document.
- `#bookmarkAndPages:` Displays the page and the bookmarks tab.
- `#thumbnailAndPages:` Displays the page and the thumbnail tab.

When using Acrobat for Windows, this method will only work if Toolbars are shown.

Platforms Windows only

PDF_Status`()` methods.

Use Acrobat/Reader/Any:. force PDF Xtra to launch Acrobat, Reader or choose any one of the two (Any). When Any is selected, PDF Xtra first tries to use Acrobat. If Acrobat is unavailable, it tries to use Acrobat Reader. If Reader is also unavailable, PDF Xtra tries to run it from the CD-ROM (*see* Running Acrobat Reader off of your CD-ROM).

> **Note** This is a global option that affects all the PDF castmembers in your movie, not just the currently selected castmember.

On Windows platforms, if Acrobat is chosen and only Reader is present on the system, PDF Xtra returns an error. If, on the other hand, Reader is chose and only Acrobat is installed, *Reader will still be used*. This is due to the fact that Acrobat automatically installs the portions of Reader that PDF Xtra uses.

All of these options, with the exception of: Reader/Mac, *Show Alert on Error* and *Use Acrobat/Reader/Any* are under user control during playback. PDF Xtra has a Lingo interface that you can use to dynamically control how your PDF files are displayed. See Appendix 3: Methods Reference for a complete list of Lingo methods.

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Specifying pathnames to PDF Xtra

Pathnames are required for the Link File field in the Properties dialog box, and for the `PDF_Open()` method.

OS-specific path delimiters are accepted ("\" from Windows, ":" for MacOS) but "/" is also accepted as a universal path delimiter.

The following are some examples on how to specify paths to PDF Xtra under various circumstances.

Absolute Path

In the PDF Xtra Member Options dialog Link File field:

`D/Projects/PDFDocs/MyDoc.pdf`	Windows and MacOS
`http://www.PDFxtra.com/manual.pdf`	Windows and MacOS
`D:\Projects\PDFDocs\MyDoc.pdf`	Windows only
`Projects:PDFDocs:MyDoc.pdf`	MacOS only

Using Behaviors or `PDF_Open()`:

`PDF_Open(sprite 9, "D/Projects/PDFDocs/MyDoc.pdf")`	Windows and MacOS
`PDF_Open(sprite 9, "http://www.hello.com/doc.pdf")`	Windows and MacOS
`PDF_Open(sprite 19, "D:\Projects\PDFDocs\MyDoc.pdf")`	Windows only
`PDF_Open(sprite 19, "Projects:PDFDocs:MyDoc.pdf")`	MacOS only

`PDF_Open(sprite 9, the applicationPath & "MyDoc.pdf")`. This is equivalent to Relative to Playback Engine.

Relative to Movie

In the PDF Xtra Member Options dialog Link File field

PDF document in same directory:

`MyDoc.pdf`

PDF document in sub-directory:

`MySubFolder/MyDoc.pdf`	MacOS and Windows
`MySubFolder\MyDoc.pdf`	Windows only
`MySubFolder:MyDoc.pdf`	MacOS only

PDF document in sibling directory:

`../MySubFolder/MyDoc.pdf`	MacOS and Windows
`..\MySubFolder\MyDoc.pdf`	Windows only
`::MySubFolder:MyDoc.pdf`	MacOS only

Using Behaviors or `PDF_Open()`

PDF document in same directory:

```
PDF_Open(sprite 9, the moviepath & "MyDoc.pdf")
```


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PDF document in sub-directory:

```
PDF_Open(sprite 18, the moviepath & "MySubFolder/MyDoc.pdf")
```
MacOS and Windows

```
PDF_Open(sprite 18, the moviepath & "MySubFolder\MyDoc.pdf")
```
Windows only

```
PDF_Open(sprite 18, the moviepath & "MySubFolder:MyDoc.pdf")
```
MacOS only

PDF document in sibling directory:

```
PDF_Open(sprite 8, the moviepath & "../MySub/MyDoc.pdf")
```
MacOS and Windows

```
PDF_Open(sprite 8, the moviepath & "..\MySub\MyDoc.pdf")
```
Windows only

```
PDF_Open(sprite 8, the moviepath & "::MySub:MyDoc.pdf")
```
MacOS only

Relative to Playback Engine

In the PDF Xtra Member Options dialog Link File field

Identical to the Relative to Movie options above.

Using Behaviors or `PDF_Open()`

Identical to the Relative to Movie options above, except that `the moviepath` is replaced by `the applicationpath`.

For security reasons, this option cannot be used with Shockwave.

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Controlling a PDF Sprite via Lingo

Sprites of type PDF Xtra can be controlled via Lingo, as explained in this section.

For your convenience, a library of Behaviors is made available to you free of charge and most common tasks can be accomplished using only those Behaviors. See the download page at INM's web site at http://www.integration.qc.ca/downloads/ for the current versions of these Behaviors.

Most Director's standard sprite properties can be tested and set to PDF Xtra sprites, with a few exceptions (see Limitations of PDF Xtra).

PDF sprites also have methods. The general syntax to call a PDF Xtra method is:

```
MethodName(whichsprite, parameters…)
```

Example:

```
PDF_GoToPage(sprite 3, 18) -- go to page 18
```

A few PDF Xtra method also return values and thus must be assigned to variables (or to fields, or output to the message window). Example:

```
set n = PDF_GetNumberOfPages(sprite 3) -- assign number of pages to n
```

All methods are not supported consistently on MacOS and Windows, and on Acrobat and Acrobat Reader. See details in Appendix 3: Methods Reference. If you have set the castmember setting for "Show Alert on Error", you will be presented with an error dialog that tells you if a command is not supported on the current platform.

It is always a good practice to check for errors after calling PDF Xtra methods. To do so, check `PDF_SetDisplayMode`

Syntax `PDF_SetDisplayMode(whichSprite, theModeSymbol)`

Parameters *`whichSprite:`* a sprite of type PDF
`theModeSymbol:` one of the following symbols: #pagesOnly, #bookmarkAndPages, #thumbnailAndPages

Description Change the display mode of the specified sprite of type PDF according to the symbol given in *`theModeSymbol:`*

- `#pagesOnly:` Displays just the contents of the document.
- `#bookmarkAndPages:` Displays the page and the bookmarks tab.
- `#thumbnailAndPages:` Displays the page and the thumbnail tab.

When using Acrobat for Windows, this method will only work if Toolbars are shown.

Platforms Windows only

PDF_Status`()` for a return code, and `PDF_Error()` for a plain English description of the error.

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Delivering to the End-User

Whichever delivery method you choose for your project, a properly installed Acrobat or Acrobat Reader is required on the end-user's disk for PDF Xtra to play properly. If you wish to run Acrobat Reader off a CD-ROM, see Running Acrobat Reader off of your CD-ROM. In any case, make sure to read Adobe's license agreement before deciding on a distribution scheme.

Playback from a Projector

PDF Xtra must be in a folder named Xtras located in the same folder as your Projector.

With Director 7 or 8, you can incorporate PDF Xtra into your Projector by including it in the Modify > Movie > Xtras window.

Playback from Shockwave

PDF Xtra is Shockwave-safe, that is, it can be used in Shockwave movies whether played locally or through the web. PDF Xtra is accessible to your Shockwave movie if it is in Shockwave's Xtras folder located as follows:

Win 95/98	Windows > System > Macromed > Shockwave > Xtras
Win NT	WinNT> System32 > Macromed > Shockwave > Xtras
Win 2000	WinNT> System32 > Macromed > Shockwave > Xtras

Note Shockwave forces PDF Xtra to use Reader on Windows platforms, regardless of what is specified in the PDF Xtra Member Options. PDF Xtra is supported within Shockwave on the Windows platform only.

Note At this time, PDF Xtra is supported within Shockwave on the Windows platform only.

Auto-installation

If you deliver your project as a Shockwave movie, PDF Xtra can be automatically installed on your end-users computers via the web. This feature is supported in Director 7 or greater on the Windows platform.

To instruct your movie to auto-install PDF Xtra when needed:

1. Make sure the following exact lines are in the "xtrainfo.txt" file located in your Director folder:

```
; PDF Xtra by Integration New Media, Inc.
; http://www.integration.qc.ca/
; http://www.PDFxtra.com/"
[#nameW32:"pdf asset.x32", #namePPC:"pdf asset ppc",
#package:"http://www.integration.qc.ca/products/pdfxtra/verisign/1.0.2/PDFasset",
#info:"http://www.integration.qc.ca/products/pdfxtra"] ]
```


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2. Launch Director and open your movie.

3. Choose Modify > Movie > Xtras.

4. If PDF Asset is not in the list, click Add. Choose PDF Asset.X32 (Win) or PDF Asset PPC (Mac) and click OK.

5. Click PDF Asset.X32 (Win) or PDF Asset PPC (Mac) in the Xtras list.

6. Click Download if Needed.

   At this point, Director tries to validate PDF Xtra's URL and reports errors, if any.

Users who access Shockwave movies that automatically download PDF Xtra get a Verisign certificate with the Xtra's credentials. Verisign is a standard means of downloading software from secure sources. Users have the choice of allowing or refusing the installation.

Running Acrobat Reader off of your CD-ROM

PDF Xtra first tries to run the Acrobat/Reader application of the end-user's hard drive. If neither is found, it attempts to launch Acrobat Reader from the CD-ROM on which the current Director movie is running.

Windows

To run Reader/Windows off a CD-ROM, PDF Xtra first attempts to locate the Reader application (Acrord32.exe) and the ActiveX (PDF.OCX) in the subfolders hierarchy located in the same folder as the current Director movie. If unsuccessful, it attempts to locate the same files on the entire CD-ROM. If it is still unsuccessful, it reports an error.

When creating a CD-ROM that contains Acrobat Reader, Adobe recommends that you copy the entire CD folder located on the Acrobat 4.0 CD into the same folder as your projector/movie.

When ran off a CD-ROM, PDF Xtra launches the Acrobat Reader application in the background (as opposed to using the invisible ActiveX of the user's installed reader).

Macintosh

To run Reader/MacOS or Acrobat/MacOS off a CD-ROM, PDF Xtra attempts to locate it anywhere on the current movie's CD-ROM. If it can't find it, it reports an error.

When creating a CD-ROM that contains Acrobat Reader, Adobe recommends that you copy the entire CD folder located on the Acrobat 4.0 CD into the same folder as your projector/movie.

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Advanced Users

Windows

Acrobat and Acrobat Reader install DLL, ActiveX, and COM components that are automatically entered into the Windows registry: These are essential for PDF Xtra to run properly. Either Acrobat or Acrobat Reader serves PDF Xtra in the background when playing back Director movies.

Macintosh

Upon installation of Acrobat or Acrobat Reader, a collection of complementary files is installed. Two of these are essential to PDF Xtra: A Netscape Plug-in called PDFviewer and an Acrobat Plug-in called EWH. Unlike Windows, either Acrobat or Acrobat Reader must be open as a background application to serve PDF Xtra. If Acrobat or Acrobat Reader is not open, PDF Xtra will automatically find it and open it when needed.

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Tips and Tricks

- Hiding a sprite with Director 6:
  With Director 6, to hide a sprite of type PDF, move it offstage by using `the loc`. For example, if your stage is 640 pixels by 480 pixels, you could write

```
set the loc of sprite 9 = point(1280, 960)
updatestage
```

  The registration point of the sprite is its center.

- Detecting end-user's configuration at Runtime:
  You can check whether Acrobat and/or Reader 4.x is installed on the end-user's computer and make appropriate decisions before displaying frames that contain PDF sprites. (Acrobat 4.x is the only version supported in the PDF Xtra at this time.)

  Following are only some of the examples of how this could be implemented:

  Checking via Lingo for Acrobat Reader 4.x:

```
on isAcrobatReader4Present
  set x = PDF_AcrobatInfo()
  repeat with i = 1 to count(x)
    set app = GetProp(GetAt(x, i), #appname)
    if (app = "Reader") then
      set ver = GetProp(GetAt(x, i), #version)
      if ((char(1) of ver) = "4") then return TRUE
    end if
  end repeat
  return FALSE
end isAcrobatReader4Present
```

  Checking via Lingo for the full version of Acrobat 4.x:

```
on isAcrobat4Present
  set x = PDF_AcrobatInfo()
  repeat with i = 1 to count(x)
    set app = GetProp(GetAt(x, i), #appname)
    if (app = "Acrobat") then
      set ver = GetProp(GetAt(x, i), #version)
      if ((char(1) of ver) = "4") then return TRUE
    end if
  end repeat
  return FALSE
end isAcrobat4Present
```

  When you want to call the above handler, put the following into your movie in an appropriate spot, such as the StartMovie handler:

```
on StartMovie
  if isAcrobat4Present() = false then
     alert "You need to install Acrobat before you can run this program."
  quit
  end if
end StartMovie
```

  Note If the user has Acrobat 4 installed, they will also have Acrobat Reader installed, so if your application requires Acrobat, be sure to check for Acrobat itself.

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- On Windows, if a Director movie containing a PDF Xtra member is open and you attempt to launch Acrobat, nothing will happen. This is because Window's Explorer thinks that Acrobat is already open. To force Acrobat to open, first close Director, launch Acrobat, and then open Director again.

- PDF documents cannot be transparent, however, to make it *look* like your sprite is transparent, if you have a solid color underneath the sprite, match the background color of your PDF document with the color of your stage.

- In order to avoid a quick refresh flicker when your PDF sprite first loads, you can match the PDF's document settings with those listed in the PDF Xtra Member Options. To change the PDF document settings from Acrobat, go to File >Document Info > Open… and change the settings to match the settings of your sprite. Acrobat also has a Batch Process feature, which allows you to change the settings of multiple documents in one pass. Go to File > Batch Process… and select Open Info… to set the settings for a group of documents.

- If you are trying to force PDF Xtra to use Acrobat, but have Reader open, PDF Xtra will flash an error –55 (see Appendix 4: Error Codes). To avoid this, close Reader before using PDF Xtra.

- It is possible to prevent the splash screen from appearing when Acrobat loads, please consult our web site for more information on how to do that.

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Integrating PDF Xtra and V12 Together

It is possible to index the text of one or more PDF documents and have them searchable through INM's V12 Database Engine. You will then be able to deliver your project on both Mac and Windows platforms.

> **Note** The PDF document's text will need to be indexed on the Windows platform at authoring time. This is due to the fact that you will need to take advantage of the PDF_GetText method in the PDF Xtra, which is only available in the Windows version of PDF Xtra at this time.

PDF_GetText() will allow you to get the text of the PDF and store it in a variable or a field, and later store and/or index that text in a V12 database.

PDF Indexer

In order to demonstrate the integration of database functionality and PDF's, INM has created the *PDF Indexer*. It is a tool (available at http://www.integration.qc.ca/downloads/) that we provide to owners of V12 or the PDF Xtra.

PDF Indexer allows you to automatically create an index to a series of PDF documents in one batch. You can then use this indexed database in your project to create a very fast cross-platform search engine for PDF documents.

PDF Indexer is free of charge and is consequently not officially supported. Feel free to reuse parts of the PDF Indexer's movie scripts for your own projects. Also note that it is delivered open-source and can me adapted to your project's needs. Note: At this time, the PDF Indexer is only functional on the Windows platform.

If you need assistance to adapt the PDF Indexer to your own projects, please contact INM's Developer Assitance services at mailto:info@integration.qc.ca or 1-514-871-1333.

> **Note** The PDF Indexer tool requires that you have.the full version of Acrobat, as well as the PDF and V12 Xtras.

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Appendix 1: License Agreement

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Appendix 2: Lingo Compatibility Chart

Unfortunately, due to the way that Adobe Acrobat functionality is implemented on Macintosh and Windows, there are differences the way they function cross-platform. Some functions are only available on one platform or the other.

Also, due to the fact that the Xtra is compatible with the commercial version of Acrobat as well as the free version of Acrobat Reader, there are some features that are available only with the full version of Acrobat.

If you are shipping your product with Acrobat Reader only, then make sure you do not use functions which require Acrobat.

This chart lists the Lingo commands and which platforms and Acrobat versions they are compatible with.

PDF Sprite Methods

M = Supported on MacOS, W = Supported on Windows

Acrobat Reader	Acrobat	Method
MW	MW	PDF_Close
MW	MW	PDF_Error
	W	PDF_FindText
	MW	PDF_GetNumberOfPages
W	MW	PDF_GoFirstPage
	MW	PDF_GetPageNumber
	W	PDF_GetText
W	MW	PDF_GoLastPage
W	MW	PDF_GoPreviousPage
W	MW	PDF_GoNextPage
W	MW	PDF_GotoPage
MW	MW	PDF_Open
MW	MW	PDF_Print
W	W	PDF_Save
W	MW	PDF_SetDisplayMode
W	W	PDF_ScrollTo
MW	MW	PDF_Status
W	MW	PDF_ZoomTo

PDF Xtra Global Methods

Acrobat Reader	Acrobat	Method
MW	MW	PDF_AcrobatInfo
MW	MW	PDF_Help
MW	MW	PDF_Version

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Appendix 3: Methods Reference

PDF Xtra supports two types of methods: *sprite methods* and *global Methods*.

Sprite methods are those that affect a particular sprite and have that sprite's reference as a first parameter. Example

```
PDF_GoToPage(sprite 3, 8) -- go to page 8
```

Global methods are those available at all times, even if no PDF sprite is present of the stage. They can be considered as a direct extension of your Lingo library. Example:

```
set v = PDF_Version()
```

Note that in Director 7 and 8 it is possible to use the dot syntax with sprite methods, as in:

```
sprite(3).MethodName(parameter…)
```

instead of

```
MethodName(sprite 3, parameters…)
```

Director must be in Play mode for the Sprite Methods to properly execute.

PDF Sprite Methods

PDF_Close

Syntax `PDF_Close(whichSprite)`

Parameters *whichSprite*: a sprite of type PDF

Description Closes the PDF document currently shown in sprite *whichSprite*

Platforms All

See also PDF_Open

PDF_Error

Syntax `PDF_Error(whichSprite)`

Parameters *whichSprite*: a sprite of type PDF

Description Return a string describing the last error that occurred (in plain English), or EMPTY if no error occurred in sprite *whichSprite*.

Platforms All

See also PDF_SetDisplayMode

Syntax PDF_SetDisplayMode(whichSprite, *theModeSymbol)*

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Parameters whichSprite: a sprite of type PDF
theModeSymbol: one of the following symbols: #pagesOnly, #bookmarkAndPages, #thumbnailAndPages

Description

- Change the display mode of the specified sprite of type PDF according to the symbol given in *theModeSymbol:*
- `#pagesOnly`: Displays just the contents of the document.
- `#bookmarkAndPages`: Displays the page and the bookmarks tab.
- `#thumbnailAndPages`: Displays the page and the thumbnail tab.

When using Acrobat for Windows, this method will only work if Toolbars are shown.

Platforms Windows only

PDF_Status

PDF_FindText

Syntax `PDF_FindText(whichSprite, whichText, matchCase, wholeWord, reset)`

Parameters
whichSprite: a sprite of type PDF
whichText: string to find in the PDF document
matchCase: TRUE/FALSE — case-sensitive search.
wholeWord: TRUE/FALSE — match whole word.
reset: Windows — TRUE if you wish to *Find First Occurrence*. FALSE if you wish to *Find Next Occurrence*.
MacOS — TRUE if you wish to do a *Wrap Search*. FALSE if you wish to *Stop at end of document*.

Description Instruct Acrobat to find and highlight *whichText* in the current PDF document. The *reset* parameter allows you to specify whether or not to search from the beginning of the document. *Reset's* interpretation is slightly different on MacOS and Windows.

Platforms Acrobat: Win

See also PDF_GetText

PDF_GetNumberOfPages

Syntax `PDF_GetNumberOfPages(whichSprite)`

Parameters *whichSprite*: a sprite of type PDF

Description Return the number of pages in the PDF document displayed in the sprite *whichSprite*

Platforms Acrobat: Mac&Win

See also PDF_GetPageNumber

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PDF_GetPageNumber

Syntax `PDF_GetPageNumber(whichSprite)`

Parameters *whichSprite*: a sprite of type PDF

Description Return the page currently displayed in the PDF sprite *whichSprite*

Platforms Acrobat: Mac&Win

See also PDF_GetNumberOfPages

PDF_GoFirstPage

Syntax `PDF_GoFirstPage(whichSprite)`

Parameters *whichSprite*: a sprite of type PDF

Description Display the first page of the document in the PDF sprite *whichSprite*

Platforms Reader: Win Only, Acrobat: Mac&Win

See also PDF_GetPageNumber, PDF_GoLastPage, PDF_GoPreviousPage, PDF_GoNextPage, PDF_GotoPage

PDF_GetText

Syntax `PDF_GetText(whichSprite)`

Parameters *whichSprite*: a sprite of type PDF

Description Return the text of the current page of the PDF sprite. The word order is not guaranteed to be in the order of appearance in the document, due to the fact that a PDF document can contain many layers. The order of the text depends on the structure of the PDF document.

Platforms Acrobat: Win Only

See also PDF_FindText

PDF_GoLastPage

Syntax `PDF_GoLastPage(whichSprite)`

Parameters *whichSprite*: a sprite of type PDF

Description Display the last page of the document in the PDF sprite *whichSprite*

Platforms Reader: Win Only, Acrobat: Mac&Win

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See also PDF_GoFirstPage, PDF_GetPageNumber, PDF_GoPreviousPage, PDF_GoNextPage, PDF_GotoPage

PDF_GoPreviousPage

Syntax `PDF_GoPreviousPage(whichSprite)`

Parameters *whichSprite*: a sprite of type PDF

Description Display the page before the one currently displayed in the PDF sprite *whichSprite*

Platforms Reader: Win Only, Acrobat: Mac&Win

See also PDF_GoFirstPage PDF_GetPageNumber, PDF_GoNextPage,PDF_GoLastPage PDF_GotoPage

PDF_GoNextPage

Syntax `PDF_GoNextPage(whichSprite)`

Parameters *whichSprite*: a sprite of type PDF

Description Display the page following the currently displayed page *whichSprite*

Platforms Reader: Win Only, Acrobat: Mac&Win

See also PDF_GoFirstPage PDF_GetPageNumber, PDF_GoLastPage PDF_GotoPage, PDF_GoFirstPage

PDF_GotoPage

Syntax `PDF_GotoPage(whichSprite, pageNumber)`

Parameters *whichSprite*: a sprite of type PDF
pageNumber: the page number to display

Description Display page number *pageNumber* in the PDF sprite *whichSprite*

Platforms Reader: Win Only, Acrobat: Mac&Win

See also PDF_GetPageNumber, PDF_GoFirstPage, PDF_GoLastPage, PDF_GoPreviousPage, PDF_GoNextPage

PDF_Open

Syntax `PDF_Open(whichSprite, absolutePath[, options])`

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Parameters

whichSprite: a sprite of type PDF
absolutePath: String containing the full pathname of the PDF document to open
options: optional property list to specify document's initial properties

Description

Open the specified PDF document. If *options* is specified, starting values are assigned to the PDF sprite as follows.

```
#page: start at page
#zoom: start with specified scaling factor. This is an integer in the
       range 8 to 1600, or one of #actualSize, #fitInWindow,
       #fitWidth, #fitHeight or #fitVisible
#displayMode: #pagesOnly, #bookmarkAndPages, #thumbnailAndPages
#toolbar: TRUE/FALSE — Show Toolbar
#scrollbars: TRUE/FALSE — Show Scrollbars
#scrollH: number of horizontal pixels to scroll document
#scrollV: number of vertical pixels to scroll document
```

The omitted properties default to:

```
#page: 1
#zoom: #fitVisible
#displayMode: #pagesOnly
#toolbar: TRUE
#scrollbars: TRUE
#scrollH: 0
#scrollV: 0
```

Examples

```
PDF_Open(sprite 15, the moviepath & "MyDocs/MyDoc.pdf")
PDF_Open(sprite 15, the applicationPath & "../../MyDocs/MyOtherDoc.pdf")
PDF_Open(sprite 15, "D/MyProject/Data/MyDoc.pdf")
PDF_Open(sprite 15, "http://www.PDFxtra.com/MyDoc.pdf")
PDF_Open(sprite 15, "MyDoc.pdf", [#displayMode:bookmarkAndPages])
PDF_Open(sprite 15, "MyDocs/MyDoc.pdf", [#page:4, #zoom: #fitWidth])
```

Platforms

Reader: Mac&Win, Acrobat: Mac&Win

See also

PDF_Close, PDF_ScrollTo, PDF_ZoomTo

PDF_Print

Syntax

PDF_Print(*whichSprite, firstPage, lastPage, PSLevel, binaryOk, shrinkToFit, silent*)

Parameters

whichSprite: a sprite of type PDF
firstPage: start printing at this page
lastPage: print up to this page
PSLevel: version of PostScript to use, possible values are 1,2, or 3.
binaryOk: TRUE/FALSE – TRUE if printer accepts binary encoded postscript.
shrinkToFit: TRUE/FALSE – force the contents to fit on the selected paper size
silent: TRUE/FALSE – print without showing the Print options dialog

Description

Print the current PDF from *firstPage* to *lastPage* inclusive. If *lastPage* exceeds the total number of pages in the document, up to the last page of the document is printed. If you aren't sure which PSLevel value to use, try 2.

Platforms

Reader: Mac&Win, Acrobat: Mac&Win

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PDF_Save

Syntax `PDF_Save(whichSprite, absolutePath)`

Parameters *whichSprite*: a sprite of type PDF
absolutePath: string containing the path and file name to save to.

Description Saves the document displayed in *whichSprite* to the specified file.

absolutePath is necessarily an absolute pathname. Use `the moviePath` or the `applicationPath` to build path names that depend on the exact position of the current movie or the current playback engine. An empty value for *absolutePath* will save the document under its current name.

Platforms Acrobat: Win

PDF_ScrollTo

Syntax `PDF_ScrollTo(whichSprite, theTypeSymbol, scale, x, y)`

Parameters *whichSprite*: a sprite of type PDF
theTypeSymbol: one of the following symbols: `#fitinWindow`, `#actualSize`, `#fitWidth`, `#fitHeight`, `#fitVisible, or #useScale.`
scale: a value between 8 and 1600, which denotes the percentage to zoom (ignored unless used in conjunction with `#useScale`
x: the horizontal position to scroll to (in pixels)
y: the vertical position to scroll to (in pixels)

Description Moves the specified coordinate to the upper left hand corner of the sprite rectangle in a view zoomed as specified in *theTypeSymbol* and *scale*.

theTypeSymbol must be one of the following values:

- `#fitinWindow`: Resize the document to the size of the current PDF sprite
- `#actualSize`: Resize the document to its original size, regardless of the size of the sprite. This is equivalent to 100%.
- `#fitWidth`: Resize the document so that its width matches the width of the sprite
- `#fitHeight`: Resize the document so that its height matches the height of the sprite
- `#fitVisible`: Resize the document so that its larger dimension (height or width) matches the respective height or width of the sprite
- `#useScale`: Resize the document to fit the scale value specified by the `scale` attribute

Platforms Acrobat: Win only, Reader: Win only

See also PDF_Open, PDF_ZoomTo

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PDF_SetDisplayMode

Syntax `PDF_SetDisplayMode(whichSprite, theModeSymbol)`

Parameters *whichSprite*: a sprite of type PDF
theModeSymbol: one of the following symbols: #pagesOnly, #bookmarkAndPages, #thumbnailAndPages

Description Change the display mode of the specified sprite of type PDF according to the symbol given in *theModeSymbol*:

- `#pagesOnly`: Displays just the contents of the document.
- `#bookmarkAndPages`: Displays the page and the bookmarks tab.
- `#thumbnailAndPages`: Displays the page and the thumbnail tab.

When using Acrobat for Windows, this method will only work if Toolbars are shown.

Platforms Windows only

PDF_Status

Syntax `PDF_Status(whichSprite)`

Parameters *whichSprite*: a sprite of type PDF

Description Return the error code of the last call to PDF sprite *whichSprite*, or zero if no error occurred.

Platforms All

See also PDF_Error

PDF_ZoomTo

Syntax `PDF_ZoomTo(whichSprite, theTypeSymbol, scale)`

Parameters *whichSprite*: a sprite of type PDF
theTypeSymbol: one of the following symbols: `#fitinWindow`, `#actualSize`, `#fitWidth`, `#fitHeight`, `#fitVisible` or `#useScale`
scale: a value between 8 and 1600, which denotes the percentage to zoom (ignored unless used in conjunction with `#useScale`)

Description Zoom the current document as specified by *theTypeSymbol* and *scale*.

- `#fitinWindow`: Resize the document to the size of the current PDF sprite
- `#actualSize`: Resize the document to its original size, regardless of the size of the sprite. This is equivalent to 100%.

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- `#fitWidth`: Resize the document so that its width matches the width of the sprite
- `#fitHeight`: Resize the document so that its height matches the height of the sprite
- `#fitVisible`: Resize the document so that its larger dimension (height or width) matches the respective height or width of the sprite
- `#useScale`: Resize the document to fit the scale value specified by the scale attribute

Platforms Reader: Win only, Acrobat: Mac&Win

See also PDF_Open, PDF_ScrollTo

PDF Xtra Global Methods

PDF Xtra features the following global methods. To call them, simply use their name. Example:

```
put PDF_Version() into gCurrentPDFXtraVersion
```

…will put a property list containing the current version of PDF Xtra into the variable *gCurrentPDFXtraVersion*.

PDF_AcrobatInfo

Syntax `PDF_AcrobatInfo()`

Parameters none

Description Return a Lingo property list describing the presence and state of Adobe Acrobat or Acrobat Reader on the current computer. The returned list contains the following properties:

`#appname`	name of Acrobat viewer. On Windows, the possible values are "Reader" and "Acrobat". On Macintosh, the actual application name is returned. By default, the version 4.0 Reader's name is "Acrobat™ Reader 4.0" and version 4.0 Acrobat's name is "Acrobat™ 4.0".
`#version`	Acrobat viewer's version.

Platforms All

PDF_Help

Syntax `PDF_Help()`

Parameters none

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Description Display a brief list of PDF Xtra's methods and their syntax. A typical use is to type:

```
put PDF_Help()
```

into the Message Window.

Platforms All

PDF_Version

Syntax `PDF_Version()`

Parameters none

Description Return the current PDF Xtra's version number.

Platforms All

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Appendix 4: Error Codes

Both Platforms

```
-5          Wrong number of parameters.
-10         Invalid PDF Xtra method.
-20         Cannot open PDF document. Check pathname.
-25         Cannot download PDF document. Check URL or network connection
-30         No PDF document currently open.
-35         Cannot print.  PostScript level must be 1 or 2.
-40         Cannot download PDF document. Cannot initialize network services.
-45         Cannot download PDF file.  Director 5 does not support file downloads.
-50         Memory allocation error.
-55         Cannot load PDF document.  Acrobat cannot run while Acrobat Reader is already open.
-60         Acrobat not properly installed.
-65         Acrobat Reader not properly installed.
-70         Handler not available with Acrobat Reader.
```

Mac only

-500:	Cannot display PDF document: missing PDFViewer component.
-505:	An error occurred while trying to load PDFViewer.
-510:	Unsupported PDFViewer version.
-515:	Unreadable PDF file.
-520:	Acrobat and/or Acrobat Reader not properly installed.
-525:	An error occured while launching Acrobat/Acrobat Reader.
-530:	Cannot load PDF document. More than one instance of Acrobat currently open.
-535:	Cannot load PDF document. Xtra cannot load Acrobat Reader while Acrobat is open.
-540:	Handler not available on the Macintosh platform.
-545:	PDF Xtra requires Acrobat/Acrobat Reader version 4 or higher.
-550:	Cannot call PDF Xtra methods when Director is not playing.
-555:	The current Macintosh version of PDF Xtra cannot have more than one active sprite at a time.
-560:	Cannot load Acrobat or Reader because memory is too low. Try quitting some applications and start again.

Windows only

-1000:	Cannot find Acrobat Reader ActiveX control.
-1005:	Cannot launch Acrobat Reader.
-1010:	Cannot open PDF document. It is password-protected or already open by another application.
-1020:	Acrobat and/or Acrobat Reader not properly installed.
-1030:	Acrobat not properly installed. PDF Xtra will use Acrobat Reader instead.
-1040:	Memory allocation error or Acrobat not properly installed.
-1050:	Memory allocation error or Acrobat Reader not properly installed.

WARNINGS

5:	You need to save this movie before using PDF Xtra's Relative File Path options.
10:	You need to save this movie to ensure it is licensed for PDF Xtra.

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